CoE 197 ME8 Exercise 6

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## GOommand Prompt

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On the left picture, the docker network was inspected. As you can see, 3 default networks were present: bridge, host, and none.

Upon inspection of the bridge network, it can be seen that the "Containers" entry was empty which is why a ping container was created.

On the right picture, the bridge network was inspected again and this time, the dummy container appeared in the containers entry.

Another ping container was added as seen at the bottom of the right picture. This new ping container was set to ping the dummy container.

As seen above, the new ping container is successfully created and is also able to ping the other container in the network.

```
:\Users\ysabe\Desktop\CoE197_ME8\6-networking>docker stop pinger
inger
:\Users\ysabe\Desktop\CoE197_ME8\6-networking>docker run --rm -d -e PING_TARGET=dummy --name pinger ysabelaaa/ping:1.0
aafc942661383cf7ed0a8e98afd03274586399381bc5212f1739dd7f748017d
C:\Users\ysabe\Desktop\CoE197_ME8\6-networking>docker ps
CONTAINER ID
                IMAGE
                                        COMMAND
                                                                     CREATED
                                                                                       STATUS
                                                                                                        PORTS
                                                                                                                   NAMES
                                        "sh -c 'ping $PING_T..."
8f3549b1751d
                ysabelaaa/ping:1.0
                                                                                       Up 4 minutes
                                                                     4 minutes ago
                                                                                                                   dummy
```

In the pictures above, instead of an IP address, the dummy container's hostname was used. This, however, led to errors and as a result, removed from the list of containers.

In the picture above, it shows how a custom network (in the case above, it's called skynet) is created and deleted.

```
\Users\ysabe\Desktop\CoE197_ME8\6-networking>docker network create skynet
daee7d6291b2165dc788c8a0ca286f54a48bf883739acdac7f7d2db0e45937
  ::\Users\ysabe\Desktop\CoE197_ME8\6-networking>docker run --rm -d --network skynet --name dummy ysabelaaa/ping:1.0
locker: Error response from daemon: Conflict. The container name "/dummy" is already in use by container "8f3549b1751d41fe89ab69848d
bld97128ace2ce2493c2d872d141e0e8151e2d". You have to remove (or rename) that container to be able to reuse that name.
lee 'docker run --help'.
           sers\ysabe\Desktop\CoE197_ME8\6-networking>docker ps
AINER ID IMAGE COMMAND CREATED STATUS
19b1751d ysabelaaa/ping:1.0 "sh -c 'ping $PING_T_" 26 minutes ago Up 26 minutes
  :\Users\ysabe\Desktop\CoE197_ME8\6-networking>docker rm 8f35
rror response from daemon: You cannot remove a running container 8f3549b1751d41fe89ab69848d0b1d97128eace2e49cd20f2cd141e0e8151e2d.
top the container before attempting removal or force remove
    :\Users\ysabe\Desktop\CoE197 ME8\6-networking>docker stop dummy
  :\Users\ysabe\Desktop\CoE197_ME8\6-networking>docker ps
ONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
    :\Users\ysabe\Desktop\CoE197_ME8\6-networking>docker run --rm -d --network skynet --name dummy ysabelaaa/ping:1.0
e94e0ed7a6280023226c29072f0cf6933610d239fb9819591b8bfd9dc688128
           d609082fb62f4d41d7cc396ce763f4afc4a2a67b188a2e2df10e87307a59
  ::Users\ysabe\Desktop\CoE197_ME8\6-networking>docker logs pinger
PING dummy (172, 20.0.2) 56(84) bytes of data.

3d bytes from dummy.skynet (172.20.0.2): icmp_seq=1 ttl=64 time=0.228 ms

4d bytes from dummy.skynet (172.20.0.2): icmp_seq=2 ttl=64 time=0.116 ms

5d bytes from dummy.skynet (172.20.0.2): icmp_seq=3 ttl=64 time=0.116 ms

5d bytes from dummy.skynet (172.20.0.2): icmp_seq=3 ttl=64 time=0.131 ms

4d bytes from dummy.skynet (172.20.0.2): icmp_seq=5 ttl=64 time=0.818 ms

5d bytes from dummy.skynet (172.20.0.2): icmp_seq=5 ttl=64 time=0.129 ms

5d bytes from dummy.skynet (172.20.0.2): icmp_seq=7 ttl=64 time=0.129 ms

5d bytes from dummy.skynet (172.20.0.2): icmp_seq=8 ttl=64 time=0.125 ms

5d bytes from dummy.skynet (172.20.0.2): icmp_seq=9 ttl=64 time=0.125 ms

5d bytes from dummy.skynet (172.20.0.2): icmp_seq=9 ttl=64 time=0.124 ms
  ::\Users\ysabe\Desktop\CoE197_ME8\6-networking>docker ps
                                                                                                                                                                                                                                                                                                                                                                            NAMES
                                                                                                                                                                                                                                                                                                                                         PORTS
CONTAINER ID
                                                 IMAGE
                                                                                                                             COMMAND
                                                                                                                                                                                                                     CREATED
                                                                                                                                                                                                                                                                                 STATUS
```

```
C:\Users\ysabe\Desktop\CoE197_ME8\6-networking>docker ps

COMMAND CREATED STATUS PORTS NAMES

b606d609082f ysabelaaa/ping:1.0 "sh -c 'ping $PING_T..." 24 seconds ago Up 23 seconds pinger

3e94e0ed7a62 ysabelaaa/ping:1.0 "sh -c 'ping $PING_T..." 51 seconds ago Up 50 seconds

C:\Users\ysabe\Desktop\CoE197_ME8\6-networking>docker stop pinger

pinger

C:\Users\ysabe\Desktop\CoE197_ME8\6-networking>docker stop dummy

dummy
```

In the picture above, the skynet network was created again and the dummy and pinger containers were added to this network. As you can see, no errors were encountered and both containers were successfully created.